

Improved Color Photodetector ArrayABSTRACT

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A color sensor for measuring light from a light source and the method for fabricating the color sensor. The color sensor includes a plurality of photodetectors, a plurality of primary color filters and a trim filter. Each primary color filter includes a layer of material between the light source and a corresponding one of the photodetectors. Each primary color filter preferentially transmits light in a corresponding band of wavelengths about a characteristic wavelength. The trim filter is located between the light source and the photodetectors and includes a layer of material that preferentially attenuates light at a first trim wavelength between two of the characteristic wavelengths. In one embodiment, the trim filter further preferentially attenuates light at a second trim wavelength, the first wavelength being less than one of the characteristic wavelengths and the second wavelength being greater than that characteristic wavelength.

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